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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/037,318	11/07/2001	Erik Leonard Hoffman	05032-00011	4521
75	90 02/24/2005		EXAM	INER
John P. Iwanicki			COMSTOCK, DAVID C	
BANNER & W	ITCOFF, LTD.			
28th Floor			ART UNIT	PAPER NUMBER
28 State Street			3732	
Boston, MA 02109			DATE MAILED: 02/24/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)		
	10/037,318	HOFFMAN, ERIK LEONARD		
Office Action Summary	Examiner	Art Unit		
	David Comstock	3732		
The MAILING DATE of this communication	appears on the cover sheet wit	h the correspondence address		
Period for Reply				
A SHORTENED STATUTORY PERIOD FOR RITHE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, If NO period for reply is specified above, the maximum statutory properties. Failure to reply within the set or extended period for reply will, by some Any reply received by the Office later than three months after the rearned patent term adjustment. See 37 CFR 1.704(b).	ON. R 1.136(a). In no event, however, may a rent. a reply within the statutory minimum of thirtyeriod will apply and will expire SIX (6) MONT statute, cause the application to become ABA	eply be timely filed (30) days will be considered timely. FHS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).		
Status				
1) Responsive to communication(s) filed on 2	29 November 2004 and 27 Sep	tember 2004.		
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closed in accordance with the practice und				
Disposition of Claims				
4)⊠ Claim(s) <u>1-23,25-35,37-51 and 53-56</u> is/ar	e nending in the application			
4a) Of the above claim(s) <u>1-23,25-33,37,48</u>	· · · · · · · · · · · · · · · · · · ·	n from consideration		
5) Claim(s) is/are allowed.	5-00,00 and 50 israte withdrawi	Thom consideration.		
6) Claim(s) 34,35,38-44,51,53,54 and 57-72	is/are rejected			
7) Claim(s) is/are objected to.	is/are rejected.			
8) Claim(s) are subject to restriction a	nd/or election requirement			
Application Papers				
9) The specification is objected to by the Exam				
10)☐ The drawing(s) filed on is/are: a)☐				
Applicant may not request that any objection to	***	···		
Replacement drawing sheet(s) including the co	,			
11)☐ The oath or declaration is objected to by th	e Examiner. Note the attached	Office Action or form PTO-152.		
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of:		119(a)-(d) or (f).		
1. Certified copies of the priority docum		a Barta Ala		
2. Certified copies of the priority docum	•	•		
3. Copies of the certified copies of the	•	received in this National Stage		
application from the International Bu	, , , , , , , , , , , , , , , , , , , ,	raceived		
* See the attached detailed Office action for a	rust of the certified copies not f	everveu.		
Attachment(s)	□	(DTO 440)		
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948 	· —	ummary (PTO-413))/Mail Date		
 Information Disclosure Statement(s) (PTO-1449 or PTO/St Paper No(s)/Mail Date 	′	formal Patent Application (PTO-152)		

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DETAILED ACTION

Election/Restrictions

Applicant's election with traverse of Group I and Species IV in the reply filed on 29 November 2004 is acknowledged. The traversal is on the ground(s) that examination of the additional groups and species of the invention would not be burdensome on the examiner. This is not found persuasive because the search required for each of the groups and species is not of the same scope and taken together would necessitate a substantially larger aggregate search for the additional groups, embodiments and claims. The requirement is still deemed proper and is therefore made FINAL.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 34, 35, 38-44 and 58-66 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yapp (0 099 167; cited by Applicant).

Yapp discloses a fastening element 12 comprising a supporting element 24, a hollow pin 13, and fixing means 28. (See Figs. 1-7.) The supporting element has a bottom surface 22 that abuts sawn-off bone 42 and a top surface 26 that is flat and parallel to the bottom surface. The supporting element is thus plate shaped and also extends on at least two sides beyond an outer longitudinal edge of the pin (see Figs. 3

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and 4). The angle between the longitudinal axis of the pin and the bottom surface of the plate is at approximately a 90 degree angle. The supporting element further comprises a coupling element 32 on a side remote from the pin. The pin extends from the supporting element into bone 42. The pin is at an angle with respect to a main surface of the supporting element (see Fig. 4). The pin is not symmetrical with respect to the longitudinal axis but rather is rectangular in cross section (see Figs. 3 and 4 and page 5, lines 2-5). The pin has a finish, i.e. porous bone contact surfaces 20, 22, to promote bone ingrowth into the hollow pin (see Figs. 1, 4, and 7 and page 3, lines 23-26). After the bone ingrowth has occurred, both the outside and inside surfaces of the pin are in contact with bone tissue. The fixing means fixes the fastening element in position wherein the pin extends into bone. The fixing means comprises a screw 28 that screws into the pin from the side remote from the supporting element. The screw adjusts the tension of the fixing means. Yapp does not disclose the angle between the longitudinal axis of the pin and the bottom surface of the plate between about 125 and 145 degrees or the angular offset of the coupling element with respect to the longitudinal axis of the pin. It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide an angle between the longitudinal axis of the pin and the bottom surface of the plate between about 125 and 145 degrees and to provide an angular offset, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. In re Aller, 105 USPQ 233. It is noted that Applicant has not defined "largely" with sufficient specificity to preclude an interpretation of the pin of Yapp

1851, 1854 (Fed. Cir. 2001), and MPEP 2111.01.

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being "largely" hollow, since Yapp shows a pin with a hollow portion and the degree or ratio of hollow space has not been defined. It is noted that the specification must clearly set forth the definition explicitly and with reasonable clarity, deliberateness, and precision. Exemplification is not an explicit definition. Even explicit definitions can be subject to varying interpretations. See *Teleflex, Inc. v. Ficosa North America Corp.*, 63 USPQ2d 1374, 1381 (Fed. Cir. 2002), *Rexnord Corp. v. Laitram Corp.*, 60 USPQ2d

Claims 51, 53, 54, 57 and 67-72 are rejected under 35 U.S.C. 103(a) as being unpatentable over Masini (5,571,203)

Masini discloses a method of sawing a femur on a cut line 230 to create an abutment surface that extends at right angles to a load axis of a joint (see Figs. 2-4 and 6 and col. 6, lines 35-65). The hollow pin 312 of a fastening element 442 is driven into a hole formed in the bone such that a supporting element 226, to which the pin is attached, abuts the abutment surface. The supporting element has a bottom surface 228 and a top surface that is flat at least at its periphery and parallel to the bottom surface. The pin is driven in at a 90 degree angle with respect to the surface. The device is fixed from a remote side through cortical bone by a pin 250 introduced through cortical bone 214 and fixed to the device at a connection 234. Masini does not disclose the angle between the longitudinal axis of the pin and the bottom surface of the plate between about 125 and 145 degrees or the angular offset of the coupling element with respect to the longitudinal axis of the pin. It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide an angle between

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the longitudinal axis of the pin and the bottom surface of the plate between about 125

and 145 degrees and to provide an angular offset, since it has been held that where the

general conditions of a claim are disclosed in the prior art, discovering the optimum or

workable ranges involves only routine skill in the art. In re Aller, 105 USPQ 233.

Response to Arguments

Applicant's arguments filed 29 November 2004 and 27 September 2004 have

been considered but are moot in view of the new grounds of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to David Comstock whose telephone number is (571) 272-

4710. The fax phone number for the organization where this application or proceeding

is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

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Business Center (EBC) at 866-217-9197 (toll-free).

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D. Comstock

22 February 2005

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